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75	90 12/04/2003	EXAMINER		
Alan E. Kopec	cki, Esq.	LYONS, MICHAEL A		
BURNS, DOAN	NE, SWECKER & MATH	IIS, L.L.P.		
P.O. BOX 1404		ART UNIT	PAPER NUMBER	
Alexandria, VA 22313-1404			2877	
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examin F			Application No.	Applicant(s)			
Michael A. Lyons 2877	Office Action Summary		09/972,896	MCGUIRE, BRIAN			
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Application/Control Number: 09/972,896

Art Unit: 2877

DETAILED ACTION

Prosecution on the merits of this application is reopened on claims 1-13, with claims 1-7 and 11 considered unpatentable for the reasons indicated below:

Please see the rejections to follow in light of the Kyrazis patent as disclosed in the applicant's IDS.

Applicant is advised that the Notice of Allowance mailed is vacated. If the issue fee has already been paid, applicant may request a refund or request that the fee be credited to a deposit account. However, applicant may wait until the application is either found allowable or held abandoned. If allowed, upon receipt of a new Notice of Allowance, applicant may request that the previously submitted issue fee be applied. If abandoned, applicant may request refund or credit to a specified Deposit Account.

The indicated allowability of claims 1-7 and 11 is withdrawn in view of the newly discovered reference(s) to Kyrazis as disclosed in the applicant's IDS. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 5, 6, 7, and 11 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kyrazis (4,589,070).

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Regarding claims 1 and 11, Kyrazis (abstract) discloses a method where a laser is pulsed into the atmosphere from an aircraft, reflections are measured from a pair of distances in front of the aircraft, and, after a processing of the reflected responses in a microprocessor (element 54, Figure 3), determines a windshear condition in front of an aircraft if there is a large difference in the measured velocities at each distance in front of the craft.

As for claim 3, the laser is a single pulsed carbon dioxide laser (abstract).

As for claim 5, the RAM 56 of processor 54 stores the information being processed.

As for claim 6, a complete measurement of the wind velocities may be made in "7.21 microseconds", allowing repetition of the method at intervals of less than ten seconds (Column 7, lines 7-10).

As for claim 7, the abstract of Kyrazis states "both close to the aircraft and at a considerable distance such as one-half mile or a mile away from the aircraft".

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kyrazis (4,589,070).

As for claim 2, Kyrazis fails to disclose the use of a global positioning system. Official Notice is taken, however, as to the use of a global positioning system for position determination and other necessary functions being well known; therefore, it would have been obvious to one of

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ordinary skill in the art at the time the invention was made to add a global positioning system to the device of Kyrazis to assist in position determination of the aircraft.

As for claim 4, Kyrazis discloses the determination of Doppler shifted frequency (column 5, lines 45-50). However, no Mach-Zehnder interferometer is disclosed, but the use of such an interferometer is a matter of design choice, as the use of such an interferometer will achieve the same result, the measurement of the Doppler shifted frequency, as already occurs in the Kyrazis device.

Allowable Subject Matter

Claims 8-10 and 12-13 are allowed in view of the prior art.

The following is a statement of reasons for the indication of allowable subject matter:

As to claims 8 and 12, the prior art of record, taken alone or in combination, fails to disclose or render obvious the elements in combination of the claimed system of using wind velocity to detect a windshear or other dangerous condition in the atmosphere in front of an aircraft, in combination with the rest of the limitations of the above claims.

Regarding claims 8 and 12, the prior art fails to disclose or render obvious the use of a pair of Mach-Zehnder interferometers as the first and second comparison means for comparing the delayed optical pulses with the backscattered light in order to make the windshear measurements, in combination with the rest of the elements and limitations of the associated claims.

Regarding claims 10 and 13, the prior art fails to disclose or render obvious the use of a means to provide a third light beam as a sample of the first beam along with a module to delay

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the third beam to correspond to the amount of time for the rest of the light in the system to travel through the system, in combination with the rest of the elements and limitations of the associated claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael A. Lyons whose telephone number is 703-305-1933. The examiner can normally be reached on Monday thru Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G Font can be reached on 703-308-4877. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0935.

MAL

August 28, 2003

Samuel A. Turner
Primary Examiner